PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: OKABE, Masao

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PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 bis.1)

Date of mailing (day/month/year)

29.11.2005

Applicant's or agent's file reference 10019235W001

See paragraph 2 below

FOR FURTHER ACTION

International application No. PCT/JP2005/014146

International filing date (day/month/year)

Priority date (day/month/year)

27.07.2005

30.07.2004

International Patent Classification (IPC) or both national classification and IPC

Int.Cl. G01N21/35 (2006.01), G01N22/00 (2006.01), G01N13/14 (2006.01), G12B21/06 (2006.01)

Applicant

CANON KABUSHIKI KAISHA

1.	This	This opinion contains indications relating to the following items:					
	V	Box No. I	Basis of the opinion				
	<u></u>	Box No. II	Priority				
	T.,	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Г	Box No. IV	Lack of unity of invention				
	F	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Г	Box No. VI	Certain documents cited				
		Box No. VII	Certain defects in the international application				
	Γ	Box No. VIII	Certain observations on the international application				
2.	FURT	THER ACTION					
	Interr other	national Preliming than this one to	rnational preliminary examination is made, this opinion will be considered to be a written opinion of the nary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority of be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written rnational Searching Authority will not be so considered.				
	a writ	tten reply togeth	provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA er, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form are the expiration of 22 months from the priority date, whichever expires later.				

Date of completion of this opinion 14.11.2005

Name and mailing address of the ISA/JP Authorized officer 2J 3 2 1 0

Japan Patent Office Ono Chuetsu

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Form PCT/ISA/237 (cover sheet) (April 2005)

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/014146

Bo	x No. I	Basis of the opinion	
l.		regard to the language, this opinion has been established on the basis of:	
	-	the international application in the language in which it was filed	
			s the language of a
	t	translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).	
2.		regard to any nuclectide and/or amino acid sequence disclosed in the international application and invention, this opinion has been established on the basis of:	n and necessary to the
	a. type	e of material	
	Г	a sequence listing	
	i –	table(s) related to the sequence listing	
	•		
	b. form	mat of material	
	Г	on paper	•
	Γ	in electronic form	
	c. time	e of filing/furnishing	
	Γ	contained in the international application as filed	
	Γ	filed together with the international application in electronic form	
	厂	furnished subsequently to this Authority for the purposes of search	
3.	f	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) re filed or furnished, the required statements that the information in the subsequent or additional co in the application as filed or does not go beyond the application as filed, as appropriate, were	pies is identical to that
4.	Additio	ional comments:	
			•
		•	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/014146

Box No. V Reasoned statement under Rule 43bis. 1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1-14	YES
	Claims		NO
Inventive step (IS)	Claims	1-14	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-14	YES
	Claims		NO

2. Citations and explanations:

Documents cited in the international search report:

- 1. JP 2003-509692 A (SIGNATURE BIOSCIENCE, INC.) 2003.03.11, Full text
- 2. JP 2002-502028 A (SIGNATURE BIOSCIENCE, INC.) 2002.01.22, Full text
- 3. JP 5-188013 A (MILES INCORPORATED) 1993.07.27, Full text
- 4. JP 2004-500546 A (Teraview Limited) 2004.01.08, Full text
- 5. O. Mitrofanov, et al., Terahertz near-field microscopy based on a collection mode detector, Appl. Phys. Lett. Vol. 77, No. 22, 2000, p. 3496-3498
- 6. Hou-Tong Chen, et al., Terahertz imaging with nanometer resolution, Appl. Phys. Lett. Vol. 83, No. 15, 2003, p. 3009-3011
- 7. U. Schade, et al., THz near-field imaging employing synchrotron radiation, Appl. Phys. Lett. Vol. 84, No. 8, 2004.02.23, p. 1422-1424
- 8. O. Mitrofanov, et al., Study of single-cycle pulse propagation inside a terahertz near-field probe, Appl. Phys. Lett. Vol. 78, No. 2, 2001, p. 252-254
- 9. Tatsuo NOZOKIDO, et al., Scanning Near-Field Millimeter-Wave Microscope, Laser Kenkyu, VOL. 26, NO. 7, 1998, p.546-550
- 10. Torsten Pfeifer, et al., Electro-Optic Near-Field Mapping of Planar Resonators, IEEE TRANSACTION ON ANTENNAS AND PROPAGATION, VOL. 46, NO. 2, 1998, p. 284-291
- 11. S. Hunsche, et al., Near-field time-resolved imaging with far-infrared dipole sources, Conference on Lasers and Electro-Optics '98 TECHNICAL DIGEST, 1998, p. 64-65

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2005/014146

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: V.2 Citations and explanations

12. Masahiko Tani, et al., Application of THz radiation to imaging - Research and development in Japan, US and Europe, 2002 Nen Densi Jyoho Tsushin Gakkai Sogo Taikai Koen Ronbunsyu Electronics 1, 2002, p.491-492

Claim 1-14

The documents cited in the international search report disclose a sensing apparatus for detecting physical property values of an object using a high frequency electromagnetic wave in a millimeter-wave to terahertz-wave region.

The subject matter of claim 1 and 12, however, is neither disclosed in any of the documents cited in the ISR nor obvious to a person skilled in the art.

Claims 2-11, 13, 14 are dependent on claim 1 or 12 and as such also meet the requirements with respect to novelty and inventive step.